

INTERNATIONAL SEARCH REPORT

International Application No
PCT/2004/050394

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H01J7/18

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H01J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>DATABASE WPI Section Ch, Week 199212 Derwent Publications Ltd., London, GB; Class E36, AN 1992-089969 XP002274620 & JP 02 980425 A (JAPAN PIONICS) 22 November 1999 (1999-11-22) abstract</p>	1-26
A	<p>US 2003/136989 A1 (AMIOTTI MARCO ET AL) 24 July 2003 (2003-07-24) column 5, lines 1-8</p>	1-26
	-/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

16 December 2004

Date of mailing of the international search report

13/01/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040; Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Annotte, E

INTERNATIONAL SEARCH REPORT

International Application No
PCT/JP2004/050394

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DATABASE WPI Section Ch, Week 200301 Derwent Publications Ltd., London, GB; Class A97, AN 2002-010551 XP002274621 & IT 1 318 392 A (GETTERS SPA) 25 August 2003 (2003-08-25) abstract -----	1-26
A	DATABASE WPI Section EI, Week 200035 Derwent Publications Ltd., London, GB; Class V05, AN 1998-232868 XP002274622 & JP 10 255660 A (COMMISSARIAT À L'ÉNERGIE ATOMIQUE) 25 September 1998 (1998-09-25) abstract -----	1-26
A	WO 97/26082 A (CATALYTIC MATERIALS LTD) 24 July 1997 (1997-07-24) cited in the application the whole document -----	1-26
A	US 5 888 665 A (SURAMPUDI SUBRA RAO ET AL) 30 March 1999 (1999-03-30) cited in the application the whole document -----	1-26

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/JP2004/050394

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 2980425	A	14-01-1993	JP 2980425 B2	22-11-1999
			JP 5004809 A	14-01-1993
			DE 69124172 D1	27-02-1997
			DE 69124172 T2	30-04-1997
			EP 0475312 A2	18-03-1992
			US 5194233 A	16-03-1993
			US 5294422 A	15-03-1994
US 2003136989	A1	24-07-2003	IT MI20001753 A1	28-01-2002
			AU 7769201 A	13-02-2002
			CN 1444773 T	24-09-2003
			EP 1305822 A1	02-05-2003
			WO 0211192 A1	07-02-2002
			JP 2004505463 T	19-02-2004
			TW 516215 B	01-01-2003
IT 1318392	A	17-09-2001	IT MI20000529 A1	17-09-2001
			AU 4452701 A	24-09-2001
			CA 2401259 A1	20-09-2001
			CN 1418171 T	14-05-2003
			EP 1265810 A1	18-12-2002
			WO 0168516 A1	20-09-2001
			JP 2003527357 T	16-09-2003
			TW 527349 B	11-04-2003
			US 2003052304 A1	20-03-2003
JP 10255660	A	25-09-1998	FR 2755295 A1	30-04-1998
			DE 69709827 D1	28-02-2002
			DE 69709827 T2	29-08-2002
			EP 0838832 A1	29-04-1998
			US 6077141 A	20-06-2000
WO 9726082	A	24-07-1997	US 5458784 A	17-10-1995
			AU 5852696 A	11-08-1997
			CA 2229445 A1	24-07-1997
			EP 0821621 A1	04-02-1998
			WO 9726082 A1	24-07-1997
			US 5626650 A	06-05-1997
			US 5653951 A	05-08-1997
US 5888665	A	30-03-1999	US 5656388 A	12-08-1997